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1971

ELECTRONIC DESK CALCULATORS

SHARP

AUTHORIZED FEDERAL SUPPLY SCHEDULE
PRICE LIST

GENERAL SERVICES ADMINISTRATION
FEDERAL SUPPLY SERVICE

F S C GROUP 74, PARTS II AND III

PERIOD: JULY 1, 1970 — THROUGH — JUNE 30, 1971

CONTRACT NUMBER GS—00S—83059

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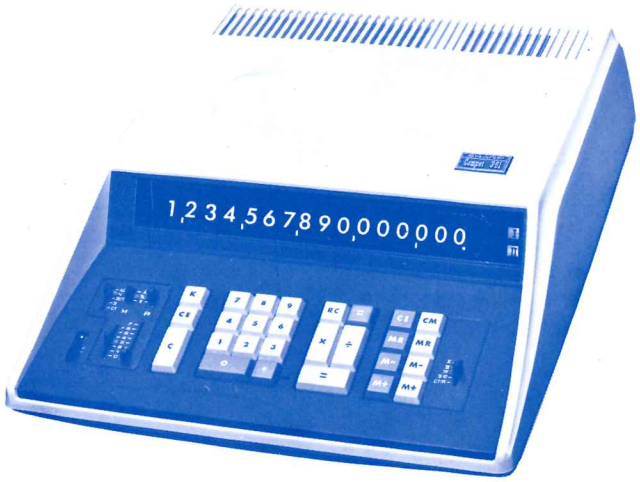

CONTRACTOR:

SHARP ELECTRONICS CORPORATION

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Phone: (201) 933-4200

ITEM NO.	MODEL NO.	REFERENCE PAGE	Government discount from mfr's. price list of March 3, 1970 & May 1, 1970. 1 to 24 MACHINES	25 or more MACHINES	MAXIMUM ORDER LIMITATION
50-279-5	QT-8D	Page 3	10%		$10,000
50-279-5	QT-8B	Page 4	10%		10,000
50-279-3	CS-121	Page 5	10%	20%	75,000
50-278-6	CS-221	Page 6	10%	20%	75,000
50-278-5	CS-241	Page 7	10%	20%	75,000
50-278-3	*CS-261	Page 8	10%	20%	75,000
50-278-3	CS-362	Page 9	10%	20%	75,000
50-278-3	CS-361R	Page 10	10%	20%	75,000
50-278-3	CS-361M	Page 11	10%	20%	75,000
50-278-3	*CS-361P	Page 12	10%	10%	75,000
50-274-2	CS-662	Page 13	10%	20%	75,000
50-274-2	CS-661	Page 14	10%	20%	75,000
50-274-2	CS-761	Page 15	10%	20%	75,000

*Effective 7/23/70

Sharp Electronics Corporation will deliver basic items at the maximum discount set forth provided that the quantity requirements are met by either a blanket purchase order or a letter of intent from one Government ordering office. Different item numbers may be combined to obtain quantity discount.

General Information and Ordering Information page 16

50-381	Repair parts for Sharp Electronics non-listing calculators	20% *
50-383	Repair parts for Sharp Electronics listing calculators	20% *

*Discount from manufacturers price list dated 5/1/70
(Does not include hand tools)
Maximum Order Limitation $5,000.

50-211 Repair Service for Sharp calculators page 16

An ultra-miniature electronic calculator, yet so sophisticated it performs complicated calculations with the utmost simplicity.

Model QT-8D is the world's first calculator utilizing Extra Large Scale Integration. This unique circuitry has enabled Sharp to develop and produce this amazing electronic calculator in ultra-miniature space-age dimensions, yet improve performance and stability.

FEATURES

- **Ultra-compact and easy to carry**
  ELSI miniaturization enormously reduces overall dimensions and weight; increases dependability and efficiency. Weighs only 1.4kg (3.1 lbs.).
- **Simple operation**
  Only four function keys control addition, subtraction, multiplication and division. No special training is required. Simply enter the problem on the simple keyboard as you would write it on paper, and the answer to almost any practical mathematical problem appears instantly.
- **Under-flow system**
  Simplifies long answers. For example, 8 digits x 8 digits = 8 digits can be carried out to a true 8 digit decimal answer. Counting from the left the first 8 digits of the answer are displayed and the insignificant portion is discarded.
- **Decimal point call back system**
  If the integral portion of the result exceeds 8 digits, the decimal point functions even though it doesn't appear on the display panel.
- **Soft lighting green display**
  Our specially developed non-glare green display panel eliminates eye-strain and improves reading ease.
- **Automatic credit balance**
  Automatically lights when the result is negative.
- **Double setting protection keys**
  Eliminate error, speed up operation . . . no more worry about double-setting of keys.
- **Overflow error check**
  If the result exceeds 16 digits, all the decimal points turn on and the calculation stops.
- **Minimum power consumption**
  The 4-phase logic features require minimum power consumption.

SPECIFICATIONS

Capacity:	8 digits
Addition & Subtraction:	8 digits ± 8 digits = 8 digits
Multiplication:	8 digits x 8 digits = 8 digits Product: up to 8 digits. In case that a product exceeds 8 digits, lower digits are discarded, but the decimal point is kept in a register and called back by decimal point call back system.
Division:	8 digits ÷ 8 digits = 8 digits
Decimal point:	Complete floating decimal point with call back system
Negative indication:	Minus sign indication
Calculation speed:	Addition & Subtraction — 20 milliseconds Multiplication — 150 milliseconds Division — 200 milliseconds
ELSI:	4
IC:	1
IC (for a clock generator):	1
Modules:	3
Transistors:	5
Diodes:	11
Clock pulse:	78 kHz
Temperature:	0–40°C (32–104°F)
Power consumption:	AC 7W (maximum) AC 4W (normal)
Dimensions:	135mm(W x 72mm(H) x 247mm(D) (5-5/16"(W) x 2.13/16"(H) x 9-11/16"(D))
Weight:	1.4 kg (3.1 lbs.)

ITEM NO. 50-279-5 — MODEL NO. QT-8D

Commercial Price	Government Discount	Net Price
$395.00	10% 1 to 24 machines	$355.50

In addition to the world's smallest electronic calculator Micro Compet incorporating four ELSIs(extra-large-scale integration), Sharp has added another fantastic Micro Compet to our line that operates on either AC, built-in rechargeable battery or 12V car battery. You can operate the QT-8B for three hours at one stretch with the built-in rechargeable battery. When operated on AC with the unit installed on the AC adaptor, the rechargeable battery is automatically charged. The QT-8B covers all the features of QT-8D and includes a DC operation system. An ideal calculator for those who take their work wherever they go.

FEATURES

- **AC/DC operation**
- **Equipped with AC adaptor**
  Which charges built-in rechargeable battery during AC operation
- **Rechargeable battery**
  Requires minimum battery replacement
- **Warning lamp**
  Indicates low battery voltage
- **Ultra-compact and easy to carry**
  ELSI miniaturization enormously reduces dimensions and weight; increases dependability and efficiency. Weighs only 1.65 kg (3.63 lbs.).
- **Simple operation**
  Only four function keys control addition, subtraction, multiplication, division and mixed calculations. No special training is required. Simply enter the problem on the simple keyboard as you would write it on paper, and the answer appears instantly.
- **Under-flow system**
  Simplifies long answers. For example, 8 digits x 8 digits = 8 digits can be carried out to a true 8-digit decimal answer. Counting from the left, the first 8 digits of the answer are displayed and the insignificant portion is discarded.
- **Decimal point call-back system**
  If the integral portion of the result exceeds 8 digits, the decimal point functions even though it doesn't appear on the display panel, and is called back.
- **Soft lighting green display**
  Our specially developed non-glare green display panel eliminates eye-strain and improves reading ease.
- **Automatic credit balance indication**
  The minus sign automatically turns on when the result is negative.
- **Double-set protection keys**
  Eliminate error, speed up operation . . . . . no more worry about double-setting keys.
- **Overflow error check**
  If the result exceeds 16 digits, all the decimal points turn on and the calculation stops.

SPECIFICATIONS

Power source:	AC 100/110%120/200/220/ 240V 50 – 60 Hz DC 7.2V rechargeable battery with built-in charger (six nickel cadmium batteries) (charging time: 14 - 17 hours) Car battery 12V car battery with optional car battery adaptor
Battery life:	1000H (1.5 - 2 years in average)
Negative:	Minus sign indication
Calculation speed:	Addition & subtraction 20ms Multiplication 150ms Division: 200ms
Capacity:	
Addition & Subt.:	8 digits ± 8 digits = 8 digits
Multiplication:	8 digits x 8 digits = 8 digits
Division:	8 digits ÷ 8 digits = 8 digits
Decimal point:	Complete floating decimal point with call back system.
ELSI:	4
IC:	1
IC (for clock generation):	1
Modules:	3
Clock pulse:	78 kHz
Temperature:	0 – 40°C(32 – 104°F)
Power consumption:	AC 7W (maximum), AC 4W (normal) DC 6.5W (maximum)
Dimensions:	Main unit 135mm(5 5/16") wide, 72mm(2 13/16") high 289mm(9 11/16") deep

ITEM NO. 50-279-5 – MODEL NO. QT-8B

Commercial Price	Government Discount	Net Price
$495.00	10% 1 to 24 machines	$445.50

SHARP

ELECTRONIC CALCULATOR

Model CS-121

New dimensions in space age calculator efficiency. The Compet CS-121 combines an all IC design with budget priced economy to give greater versitility, less trouble and lower operating costs. Fully integrated circuitry drastically reduces overall weight and dimensions.

Fast, silent calculations can be performed up to 12 digits without fear of error or double-setting of keys. Soft green digitron display eliminates eye strain.

FEATURES

- **Fully integrated circuit**
  Advanced MOS-MSIs reduce the number of working parts and insure greater dependability.
- **Automatic decimal positioning**
  Tabulation selector on the keyboard specifies the decimal positioning automatically.
- **Automatic credit balance**
  The minus sign indicator is illuminated when the result is negative.
- **Wide range of calculations**
  In addition to four arithmetical operations, multiplication and division by constant, discount calculation can be carried out with maximum speed and efficiency.
- **Overflow error check**
  When the result of calculation exceeds 12 digits, all decimal points automatically turn on and the calculation stops.
- **Double set protection keys**
  Numeral keys are designed so that no two keys can be depressed at the same time. Speeds operation and prevents errors.

SPECIFICATIONS

Capacity:	12 digits, 6 digit decimals
Addition & subtraction:	12 digits ± 12 digits = 12 digits
Multiplication:	Total digits of Multiplier and Multiplicand: up to 12 digits Product: up to 12 digits
Division:	11 digits ÷ 11 digits = 12 digits - divisor digit
Decimal point:	Automatic decimal positioning by tabulation
Signs:	Automatic credit balance indication
Calculation speed:	Addition & subtraction – 0.03 sec. Multiplication – 0.18 sec. Division – 0.19 sec.
MOS-ICs:	32
MOS-MSIs:	2
Transistors:	274
Diodes:	250
Diode arrays:	1
Clock pulse:	45 kHz
Temperature:	0° – 40°C (32° – 104°F)
Power consumption:	15 watts
Dimensions:	255mm(W) x 106mm(H) x 310mm(D) 10"(W) x 4-3/16"(H) x 12-1/4"(D)
Weight:	3.7 kg (8.14 lbs.)

ITEM NO. 50-279-3 – MODEL NO. CS-121

Commercial Price	Government Discount	Net Price
$575.00	10% 1 to 24 machines 20% 25 or more machines	$517.50 $460.00

Compet CS-221 is equipped with a full memory bank as well as two working registers. Memory calculations are simple and fast with the convenient memory function selector.

Lightweight, compact, silent and lightning fast, calculations up to 12 digits can be carried out without error or double setting keys. Automatic decimal positioning, credit balance and constant retention in multiplication and division make the CS-211 an exceptional value.

FEATURES

- **Memory bank**
  Memory calculations are performed simply by setting the memory function selector to "Σ". The accumulative figure stored can be referred to at any time without accidental loss.
- **Fully integrated circuit**
  Advanced MOS-MSIs reduce the number of working parts and insure greater dependability.
- **Automatic decimal positioning**
  Tabulation selector on the keyboard specifies the decimal positioning automatically.
- **Automatic credit balance**
  The minus sign indicator is illuminated when the result is negative.
- **Wide range of calculations**
  In addition to four arithmetical operations, multiplication and division by constant, discount calculation can be carried out with maximum speed and efficiency.
- **Overflow error check**
  When the result of calculation exceeds 12 digits, all decimal points automatically turn on and the calculation stops.
- **Double set protection keys**
  Numeral keys are designed so that no two keys can be depressed at the same time. Speeds operation and prevents errors.

SPECIFICATIONS

Capacity:	12 digits, 6 digits decimals
Addition & Subtraction:	12 digits ± 12 digits = 12 digits
Multiplication:	Total digits of Multiplier Multiplicand: up to 12 digits Product: up to 12 digits
Division:	11 digits ÷ 11 digits = 12 digits - divisor digit
Decimal point:	Automatic
Signs:	Automatic credit balance indication
Calculation speed:	Addition & subtraction – 0.03 sec. Multiplication – 0.18 sec. Division – 0.19 sec.
MOS-MSIs:	2
MOS-ICs:	35
Memory register:	1
Transistors:	48
Diodes:	277
Clock pulse:	50 kHz
Temperature:	0° ∿ 40°C (32° ∿ 104°F)
Power consumption:	16 watts
Dimensions:	255mm(W) x 107mm(H) x 310mm(D) 10"(W) x 4-1/4"(H) x 12-1/4"(D)
Weight:	3.7 kg (8.14 lbs.)

ITEM NO. 50-278-6 – MODEL NO. CS-221

Commercial Price	Government Discount	Net Price
$675.00	10% 1 to 24 machines 20% 25 or more machines	$607.50 $540.00

SHARP

Compet CS-241 is equipped with a full working memory bank as well as 2 working registers. The elimination of a vast amount of previously needed parts through the use of MOS-ICs and MOS-MSI circuitry enables a substantial reduction in overall dimensions and weight while increasing versatility.

Lightning fast, the Compet 241 can perform a wide variety of complicated and diverse calculations up to 14 digits (7 decimal digits) without fear of double-setting keys.

FEATURES

- 14 digit capacity.
- Memory bank for the storage of intermediate answers for continued calculation. Allows sums of products, products of sums, constant calculation, ratio calculation, etc.
- Automatic Clearing System automatically clears machine when it is turned on.
- Overflow error check. Illuminated error light in the event that the capacity is exceeded.
- Rounding off device counts fractions over 1/2 as one and discards others when selector switch is set at 5/4.
- Decimal tabulation selector (0,1,2,3,4,6,7)
- Automatic credit balance indication.
- Chain calculation capability. Allows calculations to be entered algebraically without the necessity for intermediate operation of = key.
- Automatic constant retention of multiplier or divisor.
- Double-set protection keys. A safety interlock in the keyboard prevents the simultaneous depression of two operating keys.

SPECIFICATIONS

Capacity:	14 digits, 7 decimal digits
Addition & subtraction:	14 digits ± 14 digits = 14 digits
Multiplication:	Total digits of multiplier & multiplicand: up to 14 digits
Division:	13 digits ÷ 13 digits = 14 digits - divisor digits
Decimal point:	In addition and subtraction, decimal point is aligned to the preset tabulation; in multiplication and division, based on floating system and aligned to the tabulation
Signs:	Automatic credit balance indication
Calculations:	Four arithmetical operations, product ± product with individual products, quotient ± quotient with individual quotient, successive multiplication & division, multiplicand ± multiplicand with individual products, dividend ± dividend with individual quotient, multiplication & division by constant, exponent calculation, mixed calculation, etc.
Calculation speed:	Addition & subtraction – 0.03 sec. Multiplication – 0.25 sec. Division – 0.24 sec.
MOS-MSI:	1
MOS-ICs:	54
Memory register:	1
Transistors:	60
Diodes:	313
Diode array:	1
Clock frequency:	50 kHz
Temperature:	0°C – 40°C (32°F – 104°F)
Power consumption:	21W
Dimensions:	308mm(W) x 112mm(H) x 327mm(D) (12-1/8"(W) x 4-3/8"(H) x 12-7/8"(D)
Weight:	5 kg (11 lbs.)

ITEM NO. 50-278-5 – MODEL NO. CS-241

Commercial Price	Government Discount	Net Price
$795.00	10% 1 to 24 machines	$715.50
	20% 25 or more machines	$636.00

Model CS-261 is our most advanced calculator utilizing a single storage memory bank. Equipped with three working registers and 16 columns of capacity, the CS-261 utilizes suppressed zeros, whole number punctuation and our unique floating or preset decimal system for ease of reading and positive identification of results. Extra large multiplication and division capacity make the CS-261 an ideal unit for statistical calculation.

FEATURES

- 3 working registers, 16 digit capacity and one memory bank.
- Zero suppress system and 3 digit punctuation for snap reading.
- Preset decimal system and complete floating system (0,1,2,3,4,6,8,F).
- Lamps for overflow check, memory and credit balance indication.
- Automatic credit balance system.
- Chain calculation in multiplication or division. Eliminates the necessity of using intermediate = key.
- Automatic constant for multiplication or division. Optional use of constant key provides for recall check of last add entry in case of interruption or may be used for repeat add or repeat subtract entries.
- Rounding up/off/down device.
- Easy to read glare-free display.
- Double set protection keys provide a safety interlock so that two numerical keys cannot be depressed simultaneously.
- Lightweight, noiseless and easy to carry.
- Automatic clearing system.

SPECIFICATIONS

Capacity:	16 digits, 15 digit decimals 16 digits ± 16 digits = 16 digits 16 digits x 16 digits = 16 digits 16 digits ÷ 16 digits = 16 digits
Credit balance:	Automatic credit balance indication
Calculations:	Four arithmetical operations, power calculation, constant calculation, successive multiplication and division, mixed calculation with one memory and other complicated calculations
Calculation speed:	Four arithmetical operations: 0.2 sec.(max.)
Calculation elements:	MOS-IC (including MSI) cores, transistors, diodes, etc.
Temperature:	0 – 40°C (32 – 104°F)
Power consumption:	21W
Dimensions:	340mm(13-3/8")W x 119mm(4-3/4")H x 421MM(16-1/2")D
Weight:	7.5 kg (16.5 lbs.)

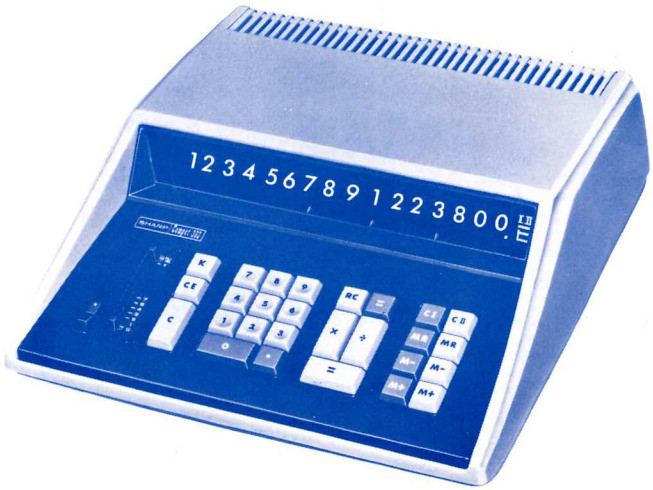
ITEM NO. 50-278-3 – MODEL NO. CS-261

Commercial Price	Government Discount	Net price
$945.00	10% 1 to 24 machines	$850.50
	20% 25 or more machines	$756.00

SHARP

Performs complicated calculations up to 16 digits and 7 decimal places with our unique automatic decimal system.

The Compet CS-362 is equipped with 2 memory banks and 16 digit capacity. It allows calculation by constant, product of sums, etc. It incorporates maximum speed and flexibility in a minimum of space.



FEATURES

- 16 digit capacity and two working memory banks.
- Rounding off/down device.
- Tabulation selector for decimal selection (0,1,2,3,4,6,7).
- Automatic clearing system.
- Automatic constant selection X or ÷.
- Double set protection keys.
- Illuminated Memory indicators.
- Overflow error check.
- Automatic credit balance.
- Chain multiplication and division.
- Compact and lightweight.

SPECIFICATIONS

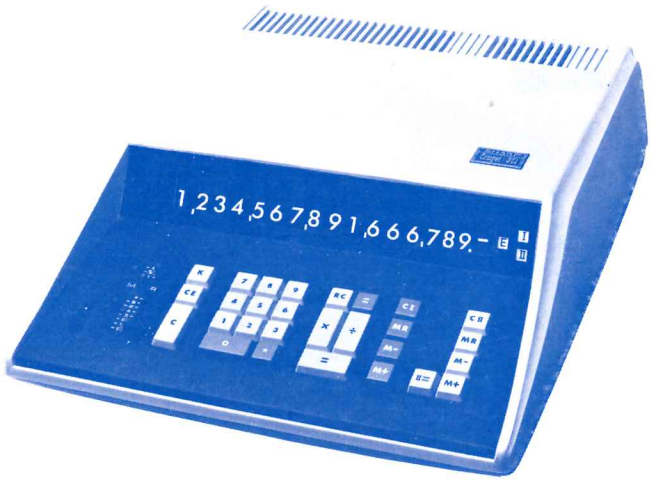
Capacity:	16 digits, 7 decimal digits
Addition & subtraction:	16 digits ± 16 digits = 16 digits
Multiplication:	Total digits of multiplier and multiplicand: up to 16 digits
Division:	15 digits ÷ 15 digits = 16 digits - divisor digits
Decimal point:	Automatic
Signs:	Automatic credit balance indication
Calculations:	Four arithmetical operations, product ± product with individual products, quotient ± quotient with individual quotients, successive multiplication and division, multiplicand ± multiplicand with individual products, dividend ± dividend with individual quotient, multiplication and division by constant, exponent calculation, mixed calculation, etc.
Calculation speed:	Addition & subtraction – 0.03 sec. Multiplication – 0.37 sec. Division – 0.30 sec.
MOS-ICs:	58
MOS-MSI:	1
Memory registers:	2
Transistors:	63
Diodes:	345
Diode array:	1
Clock frequency:	50 kHz
Temperature:	0°C – 40°C (32°F – 104°F)
Power consumption:	23W
Dimensions:	308mm(W) x 112mm(H) x 327mm(D) (12-1/8"(W) x 4-3/8"(H) x 12-7/8"(D)
Weight:	5.2 kg (11.4 lbs.)

ITEM NO. 50-278-3 – MODEL NO. CS-362

Commercial Price	Government Discount	Net Price
$895.00	10% 1 to 24 machines	$805.50
	20% 25 or more machines	$716.00

Two memory registers enable extremely complicated and diverse calculators, such as sum of products, products of sum, etc.

Compet CS-361R performs the most complicated calculations up to 16 digits and 15 decimal places with our unique floating decimal system. Three working registers provide maximum calculation versatility.



FEATURES

- 3 working registers, 16 digit capacity and 2 memory banks provide exceptionally wide calculation versatility.
- One-touch square root extraction.
- Zero suppress system and 3 digit punctuation for snap reading.
- Rounding up/off/down device.
- Preset decimal point and complete decimal point floating system (0,1,2,3,4,6,8,F).
- Lamps for overflow error check, memory and credit balance indication.
- Easy-to-read glare-free display panel.
- Memory retain system.
- Automatic credit balance system.
- Automatic clearing system.
- Double-set protection keys.
- Lightweight, noiseless and easy to carry.

SPECIFICATIONS

Capacity:	16 digits, 15 digit decimals 16 digits ± 16 digits = 16 digits 16 digits x 16 digits = 16 digits 16 digits ÷ 16 digits = 16 digits $\sqrt{16\ \text{digits}}$ = 16 digits
Credit balance:	Automatic credit balance indication
Calculations:	Four arithmetical operations, power calculation, constant calculation, square root extraction, successive multiplication and division, mixed calculation with 2 memories, and other complicated calculations
Calculation speed:	
Four arithmetical operations:	0.2 sec.(max.)
Square root extraction:	0.5 sec.(max.)
Calculation elements:	MOS-IC (including MSI), cores, transistors, diodes, etc.
Temperature:	0-40°C (32-104°F)
Power consumption:	21W
Dimensions:	340mm(13-3/8")W x 119mm(4-3/4")H x 421mm(16-1/2")D
Weight:	7.5 kg (16.5 lbs.)

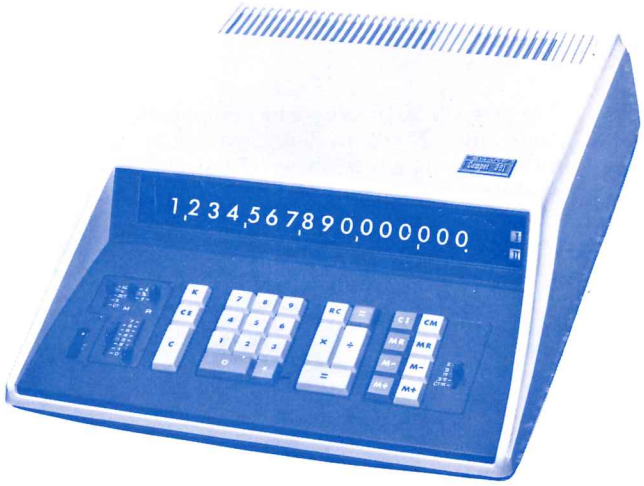
ITEM NO. 50-278-3 — MODEL NO. CS-361R

Commercial Price	Government Discount	Net Price
$1,145.00	10% 1 to 24 machines	$1,030.50
	20% 25 or more machines	$ 916.00

SHARP

An ultra-advanced electronic calculator with 6 memory banks to give you greater calculation versatility with maximum efficiency.

Compet CS-361M with 6 memory banks carries out complicated and diverse calculations up to 16 digits with maximum speed and efficiency. One-touch square root extraction, rounding up/off/down, zero suppress and three-digit punctuation systems, plus many other time-saving, work-saving features.



FEATURES

- 3 working registers, 16 digit capacity and 6 memory banks provide exceptionally wide calculation versatility. Two memories can be used for first factor accumulation and item counting.
- One-touch square root extraction.
- Zero suppress system and 3 digit punctuation for snap reading.
- Rounding up/off/down device.
- Preset decimal point and complete decimal point floating system (0,1,2,3,4,6,8,F).
- Lamps for overflow error check, memory and credit balance indication.
- Easy-to-read glare-free display panel.
- Memory retain system.
- Automatic credit balance system.
- Automatic clearing system.
- Double-set protection keys.
- Lightweight, noiseless and easy to carry.
- Convenient memory selector slide switch.

SPECIFICATIONS

Capacity:	16 digits, 15 digit decimals 16 digits ± 16 digits = 16 digits 16 digits x 16 digits = 16 digits 16 digits ÷ 16 digits = 16 digits $\sqrt{16 \text{ digits}}$ = 16 digits
Credit balance:	Automatic credit balance indication
Calculations:	Four arithmetical operations, power calculation, constant calculation, square root extraction, successive multiplication and division, mixed calculation with 6 memories, and other complicated calculations
Calculation speed:	
Four arithmetical operations:	0.2 sec.(max.)
Square root extraction:	0.5 sec.(max.)
Calculation elements:	MOS-IC (including MSI), cores, transistors, diodes, etc.
Temperature:	0-40°C (32-104°F)
Power consumption:	25W
Dimensions:	340mm(13-3/8")W x 119mm(4-3/4")H x 421mm(16-1/2")D
Weight:	7.5 kg (16.5 lbs.)

ITEM NO. 50-278-3 — MODEL NO. CS-361-M

Commercial Price	Government Discount	Net Price
$1,245.00	10% 1 to 24 machines	$1,120.50
	20% 25 or more machines	$ 996.00

The new CS-361P programs complicated calculations up to 64 steps into 2 groups with maximum speed and versatility through program storage. Two memory banks and three working registers further widen calculation versatility. Efficient programming is easily accomplished with jump system, zero suppress, electronic punctuation, automatic decimal positioning, rounding up/off/down and many other extras.

FEATURES

- **Program and memory retaining system**
  Newly developed Core memory registers and program storage retain the stored contents after the machine is turned off.
- **Sixteen digit capacity**
  With three working registers and two memory registers.
- **Zero suppress, electronic punctuation**
  Instant reading with zero suppress, advanced electronic numeral indicators and 3-digit punctuations.
- **One touch square root extraction**
- **Automatic clearing system**
  When switched on, the unit is automatically cleared except for memory•registers and program storage which retain stored contents.
- **Preset and floating decimal point system**
  Provides choice of complete floating decimals during calculations and preset decimals with 7 options (0,1,2,3,4,6,8).
- **Overflow error check lamp**
- **Automatic credit balance indication**
- **Rounding up/off/down device**
- **Function key lamps**
  Turn on to identify the depression of the X or ÷ key.
- **Ease of operation**
  The steps of successive mathmatical operations are simplified. Just enter the problems into the machine as you would write them on paper. Once programmings are recorded, just touch the variable numeral and equal keys. The answer to almost any practical problem appears instantly.
- **Chain multiplication and division**
  The intermediate = step is unnecessary.

SPECIFICATIONS

Capacity:	
Calculation:	16 digits, 15 digit decimals
Programming:	64 steps (optionally divided into two groups -AI/AII)
Addition & Subtraction:	16 digits ± 16 digits = 16 digits
Multiplication:	
Multiplier:	16 digits (15 digits decimals)
Multiplicand:	16 digits (15 digit decimals)
Product:	16 digits (15 digit decimals)
Division:	
Divisor:	16 digits (15 digit decimals)
Dividend:	16 digits (15 digit decimals)
Quotient:	16 digits (15 digit decimals)
Square root:	16 digits (15 digit decimals)
Decimal point:	Automatic decimal positioning by preset tabulation plus complete floating decimals
Sign indication:	Minus lamp in the case of Negative
Calculations:	Four arithmetical operations, chain multiplication & division, product (quotient) ± product (quotient) with individual products (quotients), multiplicand (dividend) ± multiplicand (dividend) with individual products (quotients), constant, powers, discount, ratio, square root extraction, other mixed calculations with program, etc.
Calculation speed:	Addition & subtraction – 0.08 sec. Multiplication – 0.18 sec. Division – 0.26 sec. Square root – 0.31 sec.
Elements:	127 ICs, 476 bits Core, 218 transistors, 757 diodes, 28 diode arrays
Memory registers:	2
Clock frequency:	50 kHz
Temperature:	0°–40°C (32°–104°F)
Power consumption:	28 W
Dimensions:	340mm(13-3/8")W, 119mm(4-11/16")H, 421mm(16-9/16")D
Weight:	7.5 kg (16.5 lbs.)

ITEM NO. 50-278-3 – MODEL NO. CS-361P

Commercial Price	Government Discount	Net Price
$1,395.00	10% 1 to 24 machines	$1,255.50
	20% 25 or more machines	$1,116.00

SHARP

ELECTRONIC PRINTING CALCULATOR — Model CS-662

The CS-662 is Sharp's unique electronic calculator with chemical printer. All entries are printed on a specially treated chemical ribbon with incredible speed and accuracy. One memory bank makes it possible to carry out complicated and diverse calculations. No rewriting necessary or mistakes. Although the unit includes a printer, it is very compact and operates with maximum silence. A truly modern answer for offices with something precision in mind!

FEATURES

- Total 19 columns printing: 16 for numeral digits, 1 for decimal point, 1 for credit balance indication, 1 for symbol.
- One memory bank.
- Silent and high speed printing by chemical printing system.
- Automatically cleared when the unit is turned on.
- Preset decimal positioning (0,1,2,3,4,6).
- Lamps for memory and overflow checking.
- Three digits punctuated printing.
- Double-set protection keys.
- Perfect credit balance indication system.
- Three digits punctuated printing.
- So compact for electronic printing calculator.
- Easy to operate.

SPECIFICATIONS

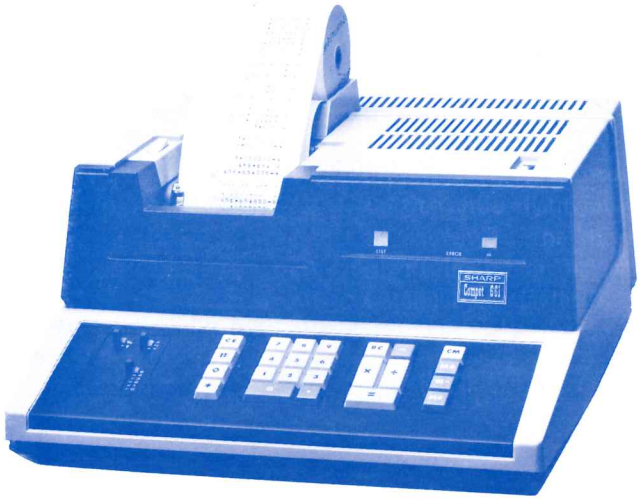
Capacity:	16 digits, 6 digit decimals 16 digits ± 16 digits = 16 digits 15 digits x 15 digits = 16 digits 15 digits ÷ 15 digits = 15 digits
Credit balance:	Perfect credit balance indication
Calculations:	Four arithmetical calculations, successive multiplication and division, product ± product with individual products, quotient ± quotient with individual quotients, multiplication and division by constant, mixed calculation, exponent calculation, etc.
Calculation speed:	(includes print out time)
Addition & subtraction:	0.27 sec.
Multiplication & division:	0.79 sec.
Calculation elements:	MOS-IC, MOS-MSI, transistors, diodes, etc.
Temperature:	0 – 40°C (32 – 104°F)
Power consumption:	38W
Printer:	
Printing system:	Chemical printing
Printing paper:	Chemically treated roll paper
Printing speed:	50 digits/sec.
Dimensions:	346mm(13-5/8")W x 127mm(5")H x 428mm(16-7/8")D
Weight:	8 kg (17.6 lbs.)

ITEM NO. 50-274-2 — MODEL NO. CS-662

Commercial Price	Government Discount	Net Price
$895.00	10% 1 to 24 machines	$805.50
	20% 25 or more machines	$716.00

REFER TO PAGE 2 FOR PRICE REDUCTION EFFECTIVE 10/21/70

Compet model CS-661 performs with amazing speed and efficiency. It records up to 16 digits with incredible accuracy. Conveniently light in weight, the CS-661 can be carried anywhere. The preset decimal system, round off/down and automatic credit balance make operation fast and simple. CS-661 even has listing-ready, overflow and memory loading lamps to keep you from making errors.



FEATURES

- Total 20 columns printing: 16 for numeral digits, 1 for decimal point, 1 for credit balance indication, 2 for symbols.
- One memory bank.
- Exceptionally light for printing calculator: weighs only 12 kg(26.4 lbs.)
- Three digits punctuated printing.
- Automatic credit balance indication system.
- Automatic paper spacing and automatic clearing.
- Preset decimal point (0,1,2,3,4,6) and zero suppress systems.
- Automatic paper feed key simplifies paper changing.
- Convenient lamps for listing ready, overflow error check and memory loading.
- Rounding off/down device and mode selection switch.
- Key lock device electronically locks the keys when error occurs during calculation or printing to prevent further operations.
- Non-add key for entering date, commodity number, etc. and Sub-total key for the intermediate total.
- Double-set protection keys.

SPECIFICATIONS

Capacity:	16 digits, 6 digit decimals
Addition & Subtraction:	16 digits ± 16 digits = 16 digits
Multiplication:	Total digits of multiplicand and multiplier: Up to 16 digits
Division:	15 digits ÷ 15 digits = 16 digits - divisor digits
Credit balance:	Automatic credit balance indication
Calculations:	Four arithmetical calculations, successive multiplication and division, product ± product with individual products, quotient ± quotient with individual quotients, multiplication and division by constant, exponent calculation, mixed calculation, ratio calculation, discount calculation percentage calculation, etc.
Calculation speed:	(includes print out time)
Addition & subtraction:	350 milliseconds(max.)
Multiplication & division:	1300 milliseconds
Calculation elements:	MOS-IC(including MSI), transistors, diodes, diode arrays
Temperature:	0-40°C (32-104°F)
Power consumption:	20W
Printer:	
Printable columns:	Total 20 columns printing (16 numerals, 1 decimal point, 1 credit balance, 2 symbols)
Space between digits:	3.5mm(1/8")
Space between lines:	5mm(3/16")
Printing ribbon:	Color: black; Material: nylon; Size: 13mm(1/2")Width; 6m(20')Length
Printing paper:	Rolled paper, 89mm(3-1/2")Width
Dimensions:	380mm(15")W x 180mm(7-1/16")H x 430mm(16-15/16")D
Weight:	12 kg (26.4 lbs.)

ITEM NO. 50-274-2 — MODEL NO. CS-661

Commercial Price	Government Discount	Net Price
$1,095.00	10% 1 to 24 machines	$985.50
	20% 25 or more machines	$876.00

REFER TO PAGE 2 FOR PRICE REDUCTION EFFECTIVE 10/21/70

SHARP

ELECTRONIC PRINTING CALCULATOR — Model CS-761

Sharp's Compet CS-761 is a new electronic printing calculator with two memory banks which enable complicated and diverse calculations with utmost speed and efficiency. Instantaneously records versatile calculations up to 16 digits with incredible accuracy. No rewriting necessary or mistakes. An truly ideal electronic printing calculator for all business and scientific calculation needs!

FEATURES

- Total 20 columns printing: 16 for numeral digits, 1 for decimal point, 1 for credit balance indication, 2 for symbols.
- Two memory banks.
- Exceptionally light for printing calculator: weighs only 12 kg(26.4 lbs.).
- Three digits punctuated printing.
- Automatic credit balance indication system.
- Automatic paper spacing and automatic clearing.
- Preset decimal point (0,1,2,3,4,6) and zero suppress systems.
- Automatic paper feed key simplifies paper changing.
- Convenient lamps for listing ready, overflow error check and memory loading.
- Rounding off/down device and mode selection switch.
- Key lock device electronically locks the keys when error occurs during calculation or printing to prevent further operations.
- Non-add key for entering date, commodity number, etc. and Sub-total key for the intermediate total.
- Double-set protection keys.
- Simplified percentage calculation with the percentage key.

SPECIFICATIONS

Capacity:	16 digits, 6 digit decimals
Addition & Subtraction:	16 digits ± 16 digits = 16 digits
Multiplication:	Total digits of multiplicand and multiplier: Up to 16 digits
Division:	15 digits ÷ 15 digits = 16 digits - divisor digits
Credit balance:	Automatic credit balance indication
Calculations:	Four arithmetical calculations, successive multiplication and division, product ± product with individual products, quotient ± quotient with individual quotients, multiplication and division by constant, exponent calculation, mixed calculation, ratio calculation, discount calculation percentage calculation, etc.
Calculation speed:	(includes print out time)
Addition & subtraction:	350 milliseconds(max.)
Multiplication & division:	1300 milliseconds
Calculation elements:	MOS-IC(including MSI), transistors, diodes, diode arrays
Temperature:	0-40°C (32-104°F)
Power consumption:	20W
Printer:	
Printable columns:	Total 20 columns printing (16 numerals, 1 decimal point, 1 credit balance, 2 symbols)
Space between digits:	3.5mm(1/8")
Space between lines:	5mm(3/16")
Printing ribbon:	Color: black; Material: nylon; Size: 13mm(1/2")Width; 6m(20')Length
Printing paper:	Rolled paper, 89mm(3-1/2")Width
Dimensions:	380mm(15")W x 180mm(7-1/16")H x 430mm(16-15/16")D
Weight:	12 kg (26.4 lbs.)

ITEM NO. 50-274-2 — MODEL NO. CS-761

Commercial Price	Government Discount	Net Price
$1,195.00	10% 1 to 24 machines	$1,075.50
	20% 25 or more machines	$ 956.00

REFER TO PAGE 2 FOR PRICE REDUCTION EFFECTIVE 10/21/70

ITEM 50–211: Repair Service for SHARP Electronic Calculators

	Zone A	Zone B	Zone C
Less than first full hour (minimum charge 1 call)	$12.50	$17.50	$22.50
First full hour, per repairman	$12.50	$17.50	$22.50
Each additional full hour	$10.00	$10.00	$10.00
Each additional quarter hour, or fraction thereof, after one or more full hours, per repairman	$ 3.75	$ 3.75	$ 3.75

Zone A: Within the corporate limits of the city in which the authorized Sharp dealer is located, or within a radius of ten miles of the location of the authorized Sharp dealer, whichever is farthest.

Zone B: Beyond ten miles, but within a radius of twenty miles of the location of the authorized Sharp dealer.

Zone C: Beyond twenty miles, but within a radius of forty miles of the authorized Sharp dealer.

Machines delivered by the Government to the authorized Sharp dealer for shop service will be repaired by the dealer at a rate of $12.50 for the first hour of shop time and $3.75 for each additional quarter hour of shop time.

The rates indicated above will apply from 9:00 a.m. to 5:00 p.m., Monday through Friday, exclusive of Government holidays. The hourly rate will begin from the time the technician starts work on the first machine until he completes the repair of the last.

Repair service will begin within nine working hours of receipt of order.

All repair work is guaranteed for a period of thirty days.

Parts used in connection with repair service will be furnished at a discount of 10% from commercial list price.

ORDERING INFORMATION

Orders should be made out to SHARP ELECTRONICS CORPORATION and mailed to 178 Commerce Road, Carlstadt, New Jersey 07072, or to SHARP ELECTRONICS CORPORATION c/o the local authorized dealer. Invoices will be issued by the local authorized dealer or SHARP ELECTRONICS CORPORATION.

TERMS:

½ of 1% – 20 days.

GUARANTEE:

All necessary adjustments of machines procured hereunder, not occasioned by accident or misuse, shall be made by the contractor at his own expense, including transportation cost if any, during the 90-day period after delivery. All machines procured hereunder are guaranteed for a period of one year from date of delivery. During the guarantee period all broken or defective parts not caused by accident or misuse through fault or negligence by the Government shall be replaced (including labor, transportation and parts) and all necessary machine adjustments occasioned by such defective parts must be made at the contractor's expense, including transportation cost, if any.

DELIVERY:

Delivery is offered within the 48 contiguous States and the District of Columbia, Alaska and Hawaii within 30 days of receipt of order. Price includes installation and operator instruction at the time of delivery.

GENERAL INFORMATION:

- Price includes instruction book, dust cover and eight foot detachable, three wire grounded cordset with standard three prong male plug. Two prong adapter with pig-tail ground wire available at no extra charge.
- Export packing is not available.
- All Sharp Calculators are made in Osaka, Japan by Sharp Corporation.
- Import duty 9.4% is included in prices.

SHARP Electronic Calculator Authorized Sales & Service Stations

NOTE: For the name and address of your closest dealer, please write SHARP ELECTRONICS CORP., 178 Commerce Road, Carlstadt, N. J. 07072

ALABAMA

BIRMINGHAM
Alabama Business Equipment Co.
3001 Seventh Avenue - South

FLORENCE
A.B.C. Cash Register Company
1911 Florence Boulevard

HUNTSVILLE
S & S Office Machines
1305 Memorial Park Way, N.W.

MOBILE
Waller Brothers, Inc.
755 McRae Avenue - P.O. Box 1028

MONTGOMERY
Berney's Office Machines, Inc.
1062 Adams Avenue - P.O. box 7116

TALLADEGA
Garing Typewriter Company
309 West Battle Street

ALASKA

ANCHORAGE
Alaskan Office Equipment
242 East Fifth Avenue

Yukon Office Supply, Inc.
935 Gambell Street

ARIZONA

NOGALES
Wilde Stationers
112 Morley Avenue

PHOENIX
Electronic Business Machines Co.
2804 North 16th Street

TUCSON
Fetterly's Office Equipment
2406 East Broadway Avenue

ARKANSAS

FAYETTEVILLE
American Business Machines, Inc.
2243 N. College Avenue

JONESBORO
W M Typewriter Company
3517 East Nettleton

LITTLE ROCK
R. B. Causey Company
1401 W. Capitol

PINE BLUFF
W. D. Wells Office Equipment
627 Main Street - P.O. Box 7646

CALIFORNIA

BAKERSFIELD
Commercial Business Machines
631 Chester Avenue

CAMARILLO
Amtec Business Machines
74 Elm Drive

DOWNEY
Western Typewriter Company
11146 Downey Avenue

EL CENTRO
Crossland Typewriter Company
542 Main Street

FRESNO
Stanton Office Machine Co.
25 North Van Ness

GLENDALE
Glendale Typewriter Exchange
159 South Central Avenue

HOLLYWOOD
Electronic Business Machines Co.
1531 North Cahuenga Boulevard

HUNTINGTON PARK
Western Typewriter Company
6424 Rugby Avenue

INGLEWOOD
Quality Business Machines Company
223 East Hillcrest Boulevard

LEONA VALLEY
McGehee Office Machines
8731 Colva Street

LONG BEACH
Empower Electronics, Inc.
3520 Long Beach Boulevard

MONTEREY
Pacific Business Machines
459 Alvarado Street - P.O. Box 991

MOUNTAIN VIEW
Business Equipment Company
369 Castro Street

NORTH HOLLYWOOD
Hi-Brand Office Equipment
5629 Lankershim Boulevard

OAKLAND
Electronic Business Machines
552A - 29th Street

ORANGE
Electronic Business Machines Co.
419 South Main Street

PASADENA
Parker's
840 East Colorado Boulevard

SACRAMENTO
Electronic Business Products
4760 Hixon Circle

SAN BERNARDINO
Stockwell & Binney, Inc.
420 South "E" Street

SAN DIEGO
Cash Lewis Company
6460 El Cajon Boulevard

SAN FRANCISCO
Business Equipment Company
517 Market Street

SAN JOSE
Hayes Calculator Company
615 Stockton Avenue

SANTA CRUZ
JHR Office Equipment Company
1630 Seabright Avenue

SANTA MONICA
Bay Cities Typewriter, Inc.
517 Santa Monica

STOCKTON
Turner Business Machines
441 East Harding Way

VENTURA
California Office Equipment Company
2781 East Main Street

WEST COVINA
General Office Appliance Company
334 North Azusa

COLORADO

BOULDER
Ford Office Machines
1845 Broadway

COLORADO SPRINGS
McClow Office Machines
318 North Tejon Street

DENVER
Typewriter Emporium
1120 16th Street

CONNECTICUT

FAIRFIELD
Typewriter Sales and Service
1940 Post Road

HARTFORD
I.C.B.M.
65 Weathersfield

NEW HAVEN
Quinn Business Equipment, Inc.
258 Park Street

NEW LONDON
County Business Machines, Inc.
725 Bank Street

STAMFORD
Haase Equipment Company, Inc.
19 South Street

WATERBURY
Bruce E. Losty Office Machines
49 Woodtick Road

DELAWARE

WILMINGTON
Hilyard's, Inc.
801 Shipley Street

DISTRICT OF COLUMBIA

Leon Office Machines Company, Inc.
623 "H" Street - N. W.

FLORIDA

FORT MYERS
Business Equipment & Supply, Inc.
2154 Fowler Street

GAINESVILLE
Kiser's Office Equipment Company
604 North Main Street

JACKSONVILLE
Perdue's Inc.
57 West Bay Street

LAKELAND
K. T. Jones Company, Inc.
401 South Florida Avenue

MIAMI
Philip Morris Office Machines
2900 Biscayne Boulevard

ORLANDO
George Stuart, Inc.
133 East Robinson Street

PANAMA CITY
Modern Office Supply
215 West Sixth Street

TALLAHASSEE
Young Office Machines, Inc.
1319 East Tennessee

TAMPA
Gulf Coast Business Machines, Inc.
1802 West J. F. Kennedy Boulevard

WEST PALM BEACH
Electronic Calculators, Inc.
110 Sandra Lane

GEORGIA

ATHENS
Athens Business Machines Company
584 North Milledge Avenue

ATLANTA
Merchants Business Machines
18 Executive Park Drive

CARROLLTON
Carrollton Office Equipment Co.
Pine Knoll Drive

LA GRANGE
Loy's Office Supplies, Inc.
228 Main Street

MACON
Electronic Business Machines, Inc.
1055 Pionono Avenue

ROME
Riddle, Inc.
101 East Eighth Avenue

GRAND BAHAMAS

FREPORT
Pan-American Business Machines
P.O. Box 447

HAWAII

HONOLULU
Kaimuki Typewriter Service, Ltd.
1053 South Beretania Street

Radio Wholesale & Supply, Inc.
610 Ward Avenue

IDAHO

IDAHO FALLS
Yost Office Systems
1715 North Yellowstone

POCATELLO
Bangs Stationers, Inc.
435 West Center Street

ILLINOIS

AURORA
Aurora Typewriter Company, Inc.
77 South River Street

BLOOMINGTON
Paxton's, Inc.
207 East Washington

BRADLEY
Walter's Office Machines
640 West Broadway

CHAMPAIGN
Bundy Business Machines
806 North Randolph Street

CHICAGO
Allen-Wales Adding Machine Agency
325 Jackson Boulevard

CICERO
Kanak & Sons, Inc.
5913 West Cermak Road

CRYSTAL LAKE
McHenry County Office Machines, Inc.
93 Grant Street

DECATUR
Associated Calculators
356 North Main Street

DE KALB
Doenges Stationery Corporation
123 East Lincoln Highway

FRANKLIN PARK
Kanak & Sons, Inc.
9773 West Grand Avenue

GALESBURG
Dunsworth's
220 East Main Street

JOLIET
Starmann's, Inc.
231 Ruby Street

LAKE BLUFF
Westminster Office Machines, Inc.
999 Sherwood Drive

MACOMB
Dunsworth's Macomb Stationers
34 West Side Square

MOLINE
Midwest Typewriter & Service Co.
1520 Sixth Avenue

MONMOUTH
Norris Office Equipment
87 North Side Square

OAK BROOK
Electronic Business Machines
61 Oak Brook Center Mall

OTTAWA
Underwood-Sundstrand Agency
106 West Madison

PEORIA
Peoria Office Machines, Inc.
1100 East Frye Avenue

ROCKFORD
Readette Office Equipment Company
110-112 South Winnebago Street

SPRINGFIELD
Dean Business Equipment Company
930 South Grand Avenue - West

STERLING
Sterling Business Machines
501 Locust Street

INDIANA

BLOOMINGTON
Indiana Office Supply Company
421 East Kirkwood - P.O. Box 275

COLUMBUS
Columbus Office Products, Inc.
1703 Keller Avenue

CRAWFORDSVILLE
Perry's Office Supply, Inc.
119 South Washington Street

EVANSVILLE
Rem-X Office Machines
114 S. E. Fourth Street

FORT WAYNE
Sullivan Equipment, Inc.
Fairfield Manor, 2301 Fairfield Avenue

HAMMOND
Gateway Office Machines
5457 Hohman

INDIANAPOLIS
A & B Typewriter Company
124 N. Delaware Street

Adding Machine Service & Sales
215 S. Meridian Street

Rex Business Machines Company
121 South Pennsylvania Street

KOKOMO
Beckley Office Equipment
114 West Mulberry

LAFAYETTE
Smith Office Equipment Company
10 North Earl Avenue

MADISON
Steinhardt & Hanson, Inc.
217-219 East Main Street

MARION
Method Office Equipment
P.O. Box 6

MISHAWAKA
Pence/Dickens & Heeter, Inc.
1906 E. McKinley Highway

MUNCIE
Burgauer's Business Machine Co.
214 North Walnut Street

RICHMOND
Wilfreed Business Machines
929 East Main Street

VINCENNES
Vincennes Typewriter Company
1725 North Sixth Street - P.O. Box 157

IOWA

CEDAR RAPIDS
Erb's Office Services
1412 Sixth Street - S. W.

CLINTON
Jim's Office Equipment
216 South 4th

DAVENPORT
Office Equipment Company
309 West Third Avenue

DES MOINES
Electronic Calculator Company
2324 S. W. 9th Street - P.O. Box 65

OTTUMWA
Bailey's Typewriter Exchange, Inc.
123 East Second Street

STORM LAKE
Iowa Office Supply, Inc.
119 West Sixth Street

WATERLOO
Office Products Division (Latta's)
2700 Airline Highway

KANSAS

EMPORIA
Dare, Inc.
17 West 5th Street

MANHATTAN
Manhattan Typewriter Co., Inc.
217 South Fourth Street

TOPEKA
Clark's Typewriter Company, Inc.
3658 Topeka Avenue

WICHITA
Bob Conklin's Office Equipment Co.
147 North Emporia

KENTUCKY

CAMPBELLSVILLE
Purcell's Office Equipment Co., Inc.
303 Main Street

LEXINGTON
L. T. Davis Office Equipment Co.
316 W. Short Street

LOUISVILLE
Remco Office Equipment Co., Inc.
1706 Bardstown Road

MIDDLESBORO
Middlesboro Office Supply
204 20th Street

PADUCAH
McKeown Office Equipment
627 Broadway

LOUISIANA

BATON ROUGE
Pelican Office Supply, Inc.
535 Main Street

MINDEN
Webster Printing Company
116 Pearl Street

MONROE
Monroe Office Equipment Co.
510 Walnut Street

NEW ORLEANS
Amann Business Machines, Inc.
902 Poydras

MAINE

BANGOR
Locke-Armes, Inc.
46 Columbia Street

PORTLAND
Executive Business Machines, Inc.
616 Congress Street

PRESQUE ISLE
Office Machines, Inc.
168 State Street

RUMFORD
Rumford Office Supply, Inc.
551 Hancock Street

MARYLAND

BALTIMORE
Graymar, Inc.
2511 St. Paul Street

CUMBERLAND
Typewriter Sales & Service
74 Purshing Street

ELKTON
Eder Business Machines
111 Blue Bell Avenue

GLEN BURNIE
International Office Machines
411 Ritchie Highway, N.E.

HAGERSTOWN
The Office Equipment Company
49 East Franklin Street

SALISBURY
Baltimore Stationery
732 E. Main Street

MASSACHUSETTS

BOSTON
Int'l. Calculating Business Machine Co.
9 Melcher Street

FALL RIVER
Gray Business Equipment
110 Wade Street

HYANNIS
H. M. Meserve Company
1 Iyanough Road

LYNN
Typewriter Specialists, Inc.
64 Franklin Street

DEDHAM
Electronic Business Machines
850 Providence Highway

NEW BEDFORD
Smith Office Equipment
230 Union Street

NORTH ADAMS
Epco Systems, Ltd., Inc.
56 Main Street

NORTHAMPTOM
The Typewriter Shop, Inc.
98 Pleasant Avenue

SALEM
Brunelle Office Equipment Company
129 Essex Street

WORCESTER
Roland's Office Appliance
283 Park Avenue

MICHIGAN

ADRIAN
Typewriter Sales & Service Company
125 North Main Street

BATTLE CREEK
Garratt Office Machines
946 Capital Avenue - N. E.

BAY CITY
F. M. Piggott Company
205-207 Third Street

DETROIT
Gilson-Ayres, Inc.
14544 Third Avenue

FAIR HAVEN
Wesley I. Knechtel Business Machines
7830 Dixie Highway

FLINT
Meyer's Typewriter Company
1518 Detroit Street

GRAND RAPIDS
Deacon Office Machines Company
2437 Division Avenue - South

IRON MOUNTAIN
Scott L. Holman
801 East "G" Street

Pete's Typewriter Service
602-604 Carpenter Avenue

JACKSON
Data Machines Company of Jackson
2922 Wildwood Avenue

LANSING
Business Machines Company
1601 East Grand River Avenue

MIDLAND
Ken's Typewriter
503 South Saginaw

MUSKEGON
Clark-Wright Business Machines
2189 Lawnell Avenue

OWOSSO
Owosso Typewriter Company
114 West Exchange Street

PONTIAC
Burnett Business Equipment Company
256 South Telegraph Road

SAGINAW
Cross Typewriter Service
82 West Genessee Avenue

SAULT STE. MARIE
The Gerrie Press
543 Ashmun

TRAVERSE CITY
Wares Brothers Office Supply
148 East Front Street

MINNESOTA

DULUTH
Duluth Typewriter & Business Furniture
320 West First Street

HOPKINS
Typewriter Sales & Service Co., Inc.
35 Ninth Avenue - North

MANKATO
Devney Office Machines & Printing
832 North Second Street

MINNEAPOLIS
Business Machines Service, Inc.
1932 Fourth Avenue - South

Minneapolis Typewriter, Inc.
1116 Nicollet Avenue

MOORHEAD
Hannaher's Inc.
9 South Fourth Street

ROCHESTER
Devney's Office Machines
115 Second Avenue - N. E.

SAINT CLOUD
Chader Business Equipment Company
619 First Street - South

WILLMAR
Ed Davis Typewriter Company
514 West Benson

MISSISSIPPI

COLUMBUS
The Office Supply Company
515 College Avenue - Box 986

JACKSON
W. T. May Company
117 East Pascagoula Street

McCOMB
McComb Stationery Company, Inc.
208 State Street - P.O. Box 887

MISSOURI

CAPE GIRARDEAU
Jordan Office Equipment & Supply Co.
630 Broadway

JEFFERSON CITY
Bryan's Office Machine Mart
312 Madison Street

JOPLIN
Electronic Office Machines
Highway 66 @ Missouri-Kansas State Line

KANSAS CITY
American Business Machines of Kansas Cit
1828 Walnut Street

ST. JOSEPH
Anderson Typewriter Company, Inc.
820 Frederick Avenue

ST. LOUIS
Von-Soosten & Company
804 Pine Street

SPRINGFIELD
C & C Electronic Business Machines
414 South Jefferson

MONTANA

BILLINGS
Star Office Machines
3101 1st Avenue N.

BUTTE
Don's Office Machine Company
123 North Main Street

NEBRASKA

FREMONT
Bell Typewriter Company
77 West Sixth Street

KEARNEY
Central Typewriter Company
2020 Central Avenue

LINCOLN
Exon, Inc.
23rd & "O" Streets

NORFOLK
Western Typewriter & Office Supply, Inc.
435 Norfolk Avenue

NORTH PLATTE
Midwest Office Equipment Company
115 West Fourth Street - Box 1050

OMAHA
Business Services & Equipment Co., Inc.
1903 Farnam Street

SCOTTSBLUFF
Scottsbluff Typewriter & Office Products
1824 Broadway

NEVADA

LAS VEGAS
Business Machines Company
1608 Las Vegas Boulevard - South

RENO
Armanko Office Supply Company
152 North Virginia Street

NEW HAMPSHIRE

MERRIMACK
Associated Business Machines of N. H.
Route 3

PORTSMOUTH
Smith Office Equipment Company
225 Islington Street

WALPOLE
Nelson C. Faught Company
Route 12

NEW JERSEY

ATLANTIC CITY
Schiff-Charney
1807 Atlantic Avenue

CAMDEN
Dewees Typewriter Company
322 Market Street

ENGLEWOOD
American Typewriter Company, Inc.
155 North Dean Street

JERSEY CITY
Dunn Typewriter Company
994 West Side Avenue

MORRIS PLAINS
Capitol Office Machine Company, Inc.
548 Speedwell Avenue

NEW BRUNSWICK
Kimber Business Machine Company
514 Georges Road

PENNSAUKEN
TBF Distributors, Inc.
2506 Union Avenue

NEW MEXICO

CLOUDCROFT
Diversified Consultants
Lynx & Aspin Circle

CLOVIS
Goodman Office Supply
1212 Main Street

HOBBS
Business Machines, Inc.
915 North Turner

NEW YORK

AMSTERDAM
Mohawk Business Machines
45 Market Street

BINGHAMTON
Stanton Business Machines, Inc.
115 Chenango Street

BUFFALO
Town & Country Office Machines, Inc.
348 Abbott Road

GLENS FALLS
Glens Falls Business Machines
4 East Washington Street

MIDDLETOWN
United Office Products
Route 211 - R. D. 2

MINEOLA
Local Business Machines, Inc.
210 Third Avenue

NEW ROCHELLE
Meizner Business Machines
126 Secord Road

NEW YORK
Alpha Business Machines Corporation
226 East 54th Street

Electronic Calculator System
230 E. 44th Street

QUEENS
Burrows Business Machines, Inc.
214-13 Jamaica Avenue

ROCHESTER
Office Equipment Company
871 Atlantic Avenue

SARANACLAKE
J. M. Munn Business Machines
34 Broadway

SYRACUSE
Impact Business Machines, Inc.
2910 Erie Boulevard East

UTICA
Key Business Equipment Company
1329 Onedia Street

WEST NYACK
Rockland-Bergen Office Machine Co.
94 Route 59-A

NORTH CAROLINA

ASHEVILLE
Carolina Calculator Company
10 Wagon Road

CHARLOTTE
Miller's Office Equipment Co.
801 E. Morehead Street

GREENVILLE
Electronic Calculators, Inc.
1109 W. Wright Road

RALEIGH
Electronic Calculators, Inc.
P. O. Box 1745

WILMINGTON
Electronic Calculators, Inc.
214 C P & L Building

WINSTON-SALEM
Niblock Typewriter Company, Inc.
675 West Fourth Street

OHIO

AKRON
Akron Business Machines
(Lecto-Data Service Corporation)
1333 Collier Road

ATHENS
Athens Office Supply, Inc.
17-21 West Washington Street

CINCINNATI
Accounting Machine Corporation
800 Sycamore Street

CLEVELAND
Broome Business Machines Corp.
2108 Payne Street

COLUMBUS
Dorsey's General Office Equipment
567 West Broad Street

DAYTON
Feltz Office Appliances, Inc.
1111 Brown Street

FINDLAY
Asset Office Machines
227 North Main Street

LANCASTER
Baker Typewriter Company
124 South Columbus

MANSFIELD
Mansfield Typewriter Company
355 Park West

MARIETTA
Central Office Supply
231 Second Street

MARION
Farquear Office Equipment
255 West Center

MIDDLETOWN
Office Outfitters, Inc.
12 North Main Street

NEWARK
Base-Smith Typewriter Service
43 South Third Avenue

PORTSMOUTH
Zimmerman, Inc.
810 Chillicothe Street

TOLEDO
Broome Business Machines
2243 Ashland Avenue

TROY
Price Typewriter Company, Inc.
1001 North Dixie

WARREN
Trumbull Office Machines
3100 Youngstown Road - S. E.

ZANESVILLE
Zanesville Typewriter
Third & Market Streets

OKLAHOMA

OKLAHOMA CITY
Teleco, Inc.
2624 Classen Boulevard

OREGON

BEND
Mahoney Office Equipment
1008 Bond Street

COOS BAY
Hale & Rudin
175 South Third

EUGENE
Brooks Office Machines
1151 Willamette Street

LAKE GROVE
Business Machines Company
6495 S. W. Jean Road

ROSEBURG
Roseburg Office Machines
741 S. E. Stephens

SALEM
Kay Typewriter Company
429 Court Street - N. E.

PENNSYLVANIA

ALTOONA
McCartney's, Inc.
1107 11th Avenue

BEVER
William P. Pollock Company
620 Third Street

CHESTER
Hi-Z Office Machines & Equipment Co.
58 West Ninth Street

EASTON
Bellis & Best Typewriter Company
100 Northampton Street

ERIE
Erie Typewriter Company
463 West 8th Street

KING OF PRUSSIA
Commercial Office Equipment Co.
King of Prussia Plaza

LANCASTER
Commercial Office Equipment Co.
1929 Lincoln Highway East

LATROBE
Turner Office Equipment
1605 Ligonier

PITTSBURGH
Philip S. Wiener
229 Atwood Street

STATE COLLEGE
Nittany Office Equipment
1207 North Atherton Street

HARRISBURG
Tyler Business Machines
2001 North Front Street

WEST CHESTER
Schaeffer's Business Machines & Equipmen
720 East Market Street

RHODE ISLAND

E. PROVIDENCE
The Office Appliance Company
100 Warren Avenue

PROVIDENCE
Martin Office Machines
100 Fountain Street

SOUTH CAROLINA

CHARLESTON
R. M. McGillivray, Inc.
169 King Street

COLUMBIA
Miller's of Columbia
2905 Two Notch Road

DILLON
Herald Office Supplies
P. O. Box 1288

FLORENCE
Wilcox Office Equipment Company
Darlington Highway - P. O. Box 1304

GREENVILLE
Carolina Calculator Company
12 Templewood Drive

SOUTH DAKOTA

HURON
Office Machines, Inc.
51 Third Street - S. E.

SIOUX FALLS
Sioux Office Service
223 North Phillips Avenue

RAPID CITY
Dakota Typewriter Exchange
717 St. Joe Street - P. O. 586

WATERTOWN
Cook's Office Machines
5 North Broadway

TENNESSEE

CHATTANOOGA
A C T Business Machines, Inc.
121 Frazier Avenue

COLUMBIA
Eubank Office Supplies
809 South Garden - P.O. Box 750

JOHNSON CITY
Office Products, Inc.
2219 North Roan Street

KNOXVILLE
Business Equipment Company
519 Broadway - N. W.

MC MINNVILLE
Hargrove Office Supply
118 South Court Street

MEMPHIS
Cooper Office Equipment, Inc.
97 South Second Street

NASHVILLE
L. E. Saunders & Sons
1418 Church Street

TEXAS

ABILENE
Kuykendall Office Machines Company
325 Walnut Street

AMARILLO
Wolfe Office Equipment Co., Inc.
414 N. Polk Street

AUSTIN
AAA Typewriters, Inc.
203 East 19th Street

BEAUMONT
Electronic Calculator Sales Company
Route 1 - Box 273, P.O. Box 3214
Pinewood Estates

BRYAN
Otis McDonald Business Machines
429 South Main Street

CORPUS CHRISTI
Electronic Office Equipment Co.
305 Hawn Building - P.O. Box 2641

DALLAS
Fulton Business Machine Company
1900 McKinney Avenue

EL PASO
Office Machines Company
2330 Wyoming

FORT WORTH
Electronic Calculator Sales, Inc.
2100 West Vickery

HOUSTON
Electronic Business Machines Co.
9222 Roos Road

LONGVIEW
Tolbert's Office Machines
212 West South Street - P.O. Box 304

LUBBOCK
West Texas Business Machines
1006 15th Street

MARSHALL
A. B. C. Business Machines, Inc.
111 E. Rusk

MIDLAND
Basin Office Equipment
406 North Marionfield

PARIS
Paris Typewriter Exchange
202 Bonham Street

SAN ANTONIO
Tom Burkholder Company
831 North St. Mary's Street

SHERMAN
Haring Office Equipment Co.
300 North Travis

UVALDE
Uvalde Office Supply, Inc.
121 North West Street

WACO
Beco Company
1526 Washington

WICHITA FALLS
General Office Equipment Co.
609 Scott Street

UTAH

SALT LAKE CITY
Type-A-Line Business Machine Co.
168 East Second - South

VERMONT

BURLINGTON
Burlington Office Equipment
150 Church Street

VIRGINIA

CHARLOTTESVILLE
Dominion Services, Inc.
425 East Main Street

DANVILLE
Haynsworth, Inc.
520 Main Street

HARRISONBURG
Harrisonburg Office Equipment
1762 South Main Street

LYNCHBURG
C. Ray Carter Company, Inc.
3108 Memorial Avenue

MARTINSVILLE
Martinsville Office Supply, Inc.
33 West Main Street

NORFOLK
Malcolm Associates
112 College Place

RICHMOND
Oscar Reynolds Sales & Service Co.
2403 West Main Street

ROANOKE
Acme Business Machines
541 Campbell Avenue - S. W.

STAUNTON
Staunton Typewriter Company, Inc.
1747 West Beverley Street

WASHINGTON

BELLINGHAM
Union Printing Corporation
1421 Cornwall Avenue

LONGVIEW
Commercial Office Machines
1166 Commerce Avenue

PASCO
Ryder's
118 North Fourth

SEATTLE
Acme Office Machine Service Co.
1826 North 45th Street

SPOKANE
A B C Office Equipment
2923 North Nevada

WISCONSIN

APPELTON
Appelton Business Machines, Inc.
131 East Wisconsin Avenue

JANESVILLE
Warmke Office Equipment, Inc.
421 West Milwaukee Street

MADISON
Accounting Equipment Corporation
2548 University Avenue

MANITOWOC
Manitowoc Business Machines Co.
1424 Washington Street

MILWAUKEE
Office Specialists, Inc.
7830 West Burleigh Street

RACINE
Office Equipment Corporation
335 Main Street

SHEBOYGAN
R. A. Ross Agency, Inc.
611 Center Avenue

WAUKESHA
Zillmer's Office Supplies, Inc.
321 South Street

WYOMING

CASPER
Byrons Office Machines
212 No. Wolcott

CHEYENNE
West Office Machines Co.
1711 Carey Avenue

PRICE REDUCTIONS - EFFECTIVE 10/21/70

Item No.	Model No.	New List Price	Government Discount		Net Price
50-274-2	CS-662	$ 695.00	10%	1 to 24 machines	$ 625.50
			20%	25 or more machines	556.00
50-274-2	CS-661	$ 945.00	10%	1 to 24 machines	$ 850.50
			20%	25 or more machines	756.00
50-274-2	CS-761	$1,045.00	10%	1 to 24 machines	$ 940.50
			20%	25 or more machines	836.00

SHARP